PENDING CLAIMS (AS AMENDED)

Claim 1. (Amended) A nucleic acid isolated from a plant comprising a nucleotide sequence coding for an amino acid sequence of a protein capable of producing raffinose by combining a D-galactosyl group through an $\alpha(1\rightarrow 6)$ bond with a hydroxyl group attached to the carbon atom at position 6 of a D-glucose residue in a sucrose molecule.

- Claim 2. (Twice Amended) The isolated nucleic acid according to claim 1, wherein the plant is a dicotyledon.
- Claim 3. (Amended) The isolated nucleic acid according to claim 2, wherein the dicot[yledon] is a leguminous plant.
- Claim 4. (Amended) The isolated nucleic acid according to claim 3, wherein the leguminous plant is broad bean.
- Claim 6. (Twice Amended) An isolated nucleic acid comprising the nucleotide sequence of SEQ ID NO:1.
- Claim 7. (Amended) The isolated nucleic acid according to claim 3, wherein the leguminous plant is soybean.
 - Claim 9. (Twice Amended) An isolated nucleic acid comprising

the nucleotide sequence of SEQ ID NO:3.

Claim 10. (Amended) The isolated nucleic acid according to claim 2, wherein the dicotyledon is a lamiaceous plant.

Claim 11. (Amended) The isolated nucleic acid according to claim 10, wherein the lamiaceous plant is Japanese artichoke.

Claim 12. (Amended) An isolated nucleic acid comprising a nucleotide sequence coding for the amino acid sequence of SEQ ID NO:6.

Claim 13. (Amended) An isolated nucleic acid comprising the nucleotide sequence of SEQ ID NO:5.

Claim 14. (Amended) The isolated nucleic acid according to claim 1, wherein the plant is a monocotyledon.

Claim 15. (Amended) The isolated nucleic acid according to claim 14, wherein the monocotyledon is a gramineous plant.

Claim 16. (Amended) The isolated nucleic acid according to claim 15, wherein the gramineous plant is corn.

Claim 17. (Amended) An isolated nucleic acid comprising a

nucleotide sequence coding for the amino acid sequence of SEQ ID NO:8.

Claim 18. (Amended) An isolated nucleic acid comprising the nucleotide sequence of SEQ ID NO:7.

Claim 30. (Twice Amended) A chimera gene comprising:

a nucleic acid isolated from a plant comprising a nucleotide sequence coding for an amino acid sequence of a protein capable of producing raffinose by combining a D-galactosyl group through an $\alpha(1\rightarrow 6)$ bond with a hydroxyl group attached to the carbon atom at position 6 of a D-glucose residue in a sucrose molecule, and a promoter linked thereto.

Claim 31. A transformant obtained by introducing the chimera gene of claim 30 into a host organism.

Claim 32. (Twice Amended) A plasmid comprising a nucleic acid isolated from a plant comprising a nucleotide sequence coding for an amino acid sequence of a protein capable of producing raffinose by combining a D-galactosyl group through an $\alpha(1\rightarrow 6)$ bond with a hydroxyl group attached to the carbon atom at position 6 of a D-glucose residue in a sucrose molecule.

Claim 33. A host organism transformed with the plasmid of claim 32, or a cell thereof.

Claim 34. A microorganism transformed with the plasmid of claim 32.

Claim 35. A plant transformed with the plasmid of claim 32.

Amended) method for Claim 36. (Twice Α metabolic modification, which comprises introducing a nucleic acid isolated from a plant comprising a nucleotide sequence coding for an amino acid sequence of a protein capable of producing raffinose by combining a D-galactosyl group through an $\alpha(1\rightarrow 6)$ bond with a hydroxyl group attached to the carbon atom at position 6 of a Dglucose residue in a sucrose molecule into a host organism or a raffinose cell thereof, so that the content of family oligosaccharides in the host organism or the cell thereof is changed.

Claim 40. (Amended) An isolated nucleic acid comprising (i) a polynucleotide having a sequence that encodes a protein having an amino acid sequence selected from the group consisting of SEQ. ID. NOS:2, 4, 6 or 8 or (ii) a polynucleotide having a sequence complementary to said sequence, or (iii) comprising a

polynucleotide that hybridizes to the polynucleotide (i) or (ii) in 0.9 M NaCl, 0.09 M citric acid at 65°C.

Claim 41. (Amended) An isolated nucleic acid comprising (i) a polynucleotide having a nucleotide sequence selected from the group consisting of SEQ. ID. NOS:1, 3, 5 or 7 or (ii) a polynucleotide having a sequence complementary to said sequence, or (iii) comprising a polynucleotide that hybridizes to the polynucleotide (i) or (ii) in 0.9 M NaCl, 0.09 M citric acid at 65°C.

Claim 43. An isolated nucleic acid of claim 1, encoding the amino acid sequence of SEQ. ID. NO.:2.

Claim 44. An isolated nucleic acid of claim 1, encoding the amino acid sequence of SEQ. ID. NO.:4.